

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claim 1 (previously presented) A connector for connecting a flexible elongate member having a sensor mounted thereon to a physiology monitor, the connector comprising:

a housing having an internal passage therein;

an electrical contact member disposed in the internal passage, the electrical contact member having a plurality of axially spaced contact members;

a cable having a plurality of conductors, the plurality of conductors being electrically connected to respective axially spaced contact members;

a sleeve having an opening therein which communicates with the internal passage in the housing and being moveable between an open position and a closed position;

an interlock mechanism disposed in the housing having a locked position and an unlocked position, the interlock mechanism being in an unlocked position when an end of the flexible elongate member is fully inserted into the connector, the interlock mechanism being moveable between the locked position and the unlocked position by movement of the sleeve, wherein when the interlock mechanism is in the locked position, the sleeve is prevented from moving from the open to the closed position.

Claim 2 (previously presented) The connector of claim 1, wherein the flexible elongate member is a guide wire.

Claim 3 (previously presented) The connector of claim 1, wherein the sleeve is a nose piece.

Claim 4 (previously presented) A connector for connecting a flexible elongate member having a sensor mounted thereon to a physiology monitor, the connector comprising:

a housing having an internal passage therein;

an engagement member disposed in the internal passage, the engagement member being moveable between an engaged position and a disengaged position, wherein the engagement member grips the flexible elongate member in the engaged position;

a sleeve having an opening therein which communicates with the internal passage in the housing and being moveable between an open position and a closed position, wherein when the sleeve is in the closed position, the engagement member is in the engaged position;

an interlock mechanism disposed in the housing having a locked position and an unlocked position, the interlock mechanism being in an unlocked position when an end of the flexible elongate member is fully inserted into the connector, the interlock mechanism being moveable between the locked position and the unlocked position by movement of the sleeve, wherein when the interlock mechanism is in the locked position, the sleeve is prevented from moving from the open to the closed position.

Claim 5 (previously presented) The connector of claim 4, wherein the flexible elongate member is a guide wire.

Claim 6 (previously presented) The connector of claim 4, wherein the sleeve is a nose piece.

Claim 7 (currently amended) A connector for connecting a flexible elongate member having a sensor mounted thereon to a physiology monitor, the connector comprising:
a housing having an internal passage therein;
an engagement member disposed in the internal passage, the engagement member being moveable between an engaged position and a disengaged position, wherein the engagement member grips the flexible elongate member in the engaged position;
a sleeve having an opening therein which communicates with the internal passage in the housing and being moveable between an open position and a closed position, wherein when the sleeve is in the closed position, the engagement member is in the engaged position;
an interlock mechanism disposed in the housing having a locked position and an unlocked position, the interlock mechanism being in an unlocked position when an end of the flexible elongate member is fully inserted into the connector, the interlock mechanism being moveable between the locked position and the unlocked position by movement of the sleeve, wherein when the interlock mechanism is in the locked position, the sleeve is prevented from moving from the open to the closed position; and
~~The connector of claim 4, further comprising~~ grip tubing disposed in the housing and arranged coaxially around the flexible elongate member.

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (currently amended) A connector for connecting a flexible elongate member having a sensor mounted thereon to a physiology monitor, the connector comprising:
a housing having an internal passage therein;
an electrical contact member disposed in the internal passage, the electrical contact member having a plurality of axially spaced contact members;
a cable having a plurality of conductors, the plurality of conductors being electrically connected to respective axially spaced contact members;
an engagement member disposed in the internal passage, the engagement member being moveable between an engaged position and a disengaged position, wherein the engagement member grips the flexible elongate member in the engaged position;
a sleeve having an opening therein which communicates with the internal passage in the housing and being moveable between an open position and a closed position, wherein when the sleeve is in the closed position, the engagement member is in the engaged position; and
~~The connector of claim 8, further comprising~~ grip tubing disposed in the housing and arranged coaxially around the flexible elongate member.

Claim 12 (canceled)

Claim 13 (currently amended) A connector for connecting a flexible elongate member having a sensor mounted thereon to a physiology monitor, the connector comprising:

a housing having an internal passage therein;

a plurality of axially spaced contact members disposed in the internal passage of the housing, the plurality of contact members being moveable between engaged and disengaged positions with respect to the flexible elongate member;

a cable having a plurality of conductors, the plurality of conductors being electrically connected to respective contact members;

a sleeve having an opening therein which communicates with the internal passage in the housing and being moveable between an open position and a closed position, wherein movement of the sleeve between the open and closed positions causes movement of the plurality of contact members between the disengaged and engaged positions such that when the sleeve is in the open position the plurality of contact members are in the disengaged position and when the sleeve is in the closed position the plurality of contact members are in the engaged position; and

~~The connector of claim 12, further comprising~~ a pair of engagement members disposed in the internal passage of the housing, the pair of engagement members being supported for movement between a released position and a clamped position in response to movement of the sleeve between the open and closed positions.

Claim 14 (canceled)

Claim 15 (canceled)

Claim 16 (currently amended) A connector for connecting a flexible elongate member
having a sensor mounted thereon to a physiology monitor, the connector comprising:

a housing having an internal passage therein;

a plurality of axially spaced contact members disposed in the internal passage of the housing,
the plurality of contact members being moveable between engaged and disengaged positions with
respect to the flexible elongate member;

a cable having a plurality of conductors, the plurality of conductors being electrically
connected to respective contact members;

a sleeve having an opening therein which communicates with the internal passage in the
housing and being moveable between an open position and a closed position, wherein movement of
the sleeve between the open and closed positions causes movement of the plurality of contact
members between the disengaged and engaged positions such that when the sleeve is in the open
position the plurality of contact members are in the disengaged position and when the sleeve is in the
closed position the plurality of contact members are in the engaged position; and

~~The connector of claim 12, further comprising~~ an interlock mechanism disposed in the
housing for movement between a locked position and an unlocked position and being operable to
move to the unlocked position when an end of the flexible elongate member reaches a fully inserted
position in the connector, wherein in the locked position the interlock mechanism prevents
movement of the sleeve from the open to the closed position.

Claim 17 (canceled)

Claim 18 (canceled)